

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

IN THE CLAIMS:

Please amend the claims as follows:

1. (Cancelled).

2. (Cancelled).

3. (Currently Amended) An irrigation system comprising a reservoir ~~(1)~~ for irrigating liquid, a probe ~~(3)~~ for arrangement in a user, a conduit means ~~(6,7,10,11)~~ for conducting the irrigating liquid from the reservoir to the probe, ~~and a fixation member (5)~~ including an inflatable cuff for fixation of the probe in the user, ~~characterized in that pumping means (9) are provided~~ a pump for pumping gas into the reservoir ~~(1)~~ to transfer the irrigating liquid from the reservoir ~~(1)~~ to the probe ~~(3)~~, ~~that the fixation member includes an inflatable cuff (5), and that the system includes a control unit (8,108,208,308) which may be set in at least a cuff inflating position and a liquid transferring position, in which said conduit means includes~~ including a first part ~~(6,7)~~ connecting the control unit ~~(8)~~ with the probe ~~(3)~~ and a second part ~~(10,11)~~ connecting the reservoir ~~(1)~~ with the control unit ~~(8)~~, ~~and in which each of said first and second parts comprises~~

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

including a gas conducting tube ~~(6,10)~~ and an irrigating liquid conducting tube ~~(7,11)~~.

4. (Cancelled).

5. (Cancelled).

6. (Currently Amended) An irrigation system comprising a reservoir ~~(1)~~ for irrigating liquid, a probe ~~(3)~~ for arrangement in a user, a conduit means ~~(6,7,10,11)~~ for conducting the irrigating fluid from the reservoir to the probe, ~~and~~ a fixation member including an inflatable cuff ~~(5)~~ for fixation of the probe in the user, ~~characterized in that pumping means (9) are provided~~ a pump for pumping gas into the reservoir ~~(1)~~ to transfer the irrigating liquid from the reservoir ~~(1)~~ to the probe ~~(3)~~, ~~that the fixation member includes an inflatable cuff (5), and that the system includes a control unit (8,108,208,308) which may be set in at least an inactive position, a cuff inflating position in which gas is pumped into the inflatable cuff and a liquid transferring position, in which the control unit (8,108,208,308) may be set in a first position corresponding to an inactive position, a second position corresponding to said liquid transferring position and in~~

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

which gas is pumped into the reservoir and irrigating liquid is transferred from the reservoir to the probe, ~~and a third position corresponding to said cuff inflating position and in which gas is pumped into the inflatable cuff.~~

7. (Currently Amended) An irrigation system comprising a reservoir ~~(1)~~ for irrigating liquid, a probe ~~(3)~~ for arrangement in a user, a conduit means ~~(6,7,10,11)~~ for conducting the irrigating fluid from the reservoir to the probe, ~~and a fixation member including an inflatable cuff (5)~~ for fixation of the probe in the user, ~~characterized in that pumping means (9) are provided~~ a pump for pumping gas into the reservoir ~~(1)~~ to transfer the irrigating liquid from the reservoir ~~(1)~~ to the probe ~~(3)~~, ~~that the fixation member includes an inflatable cuff (5), and that the system includes a control unit (8,108,208,308) which may be set in at least a cuff inflating position and a liquid transferring position, in which the said control unit (8,108,208,308) comprises at least two including elements (120,121,122,220,222,320,322) that may be moved with respect to each other into at least said cuff inflating and liquid transferring positions, and in which said control unit (108) comprises elements including a first disc (120) connected with at least an irrigating liquid tube connecting the control unit~~

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

with the probe, a second disc ~~(121)~~ connected with at least an irrigating liquid tube connecting the reservoir with the control unit, and an intermediate disc ~~(122)~~ positioned between and being rotatable about an axis of rotation ~~(123)~~ with respect to the first and second discs ~~(120,121)~~, and in which said intermediate disc ~~(122)~~ ~~may be set~~ being settable in at least said cuff inflating and liquid transferring positions.

8. (Currently Amended) ~~An~~ The irrigation system as claimed in claim 7, ~~in which~~ wherein the first disc ~~(120)~~ includes a first through-going cavity ~~(126)~~ at a first distance from said axis of rotation and a second through-going cavity ~~(127)~~ at a second distance from said axis of rotation, ~~in which~~ the second disc ~~(121)~~ includes a first through-going cavity ~~(128)~~ at said first distance from said axis of rotation, a second through-going cavity ~~(129)~~ at said second distance from said axis of rotation and a third through-going cavity ~~(130)~~ at a third distance from said axis of rotation, and ~~in which~~ the intermediate disc ~~(122)~~ having, along a first line ~~(A1)~~ extending from said axis of rotation ~~(123)~~ towards ~~the~~ a periphery of the intermediate disc, ~~(122)~~ ~~has~~ a first through-going cavity ~~(131)~~ at said second distance from the axis of rotation and ~~an~~ a first oblong recess ~~(132)~~ extending from said

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

first intermediate disc through-going cavity ~~(131)~~ to the periphery of the intermediate disc, and along a second line ~~(A2)~~ extending at an angle with respect to said first line ~~(A1)~~ from said axis of rotation ~~(123)~~ towards the periphery of the intermediate disc, said intermediate disc having ~~has~~ a second through-going cavity ~~(133)~~ at said first distance from the axis of rotation and a second ~~an~~ oblong recess ~~(134)~~ opening towards said second disc ~~(121)~~ and extending substantially over a distance corresponding to the second and third through-going cavities ~~(129,130)~~ in the second disc ~~(121)~~, and along a third line ~~(A3)~~ extending at an angle with respect to said second line ~~(A2)~~ from said axis of rotation ~~(123)~~ towards the periphery of the intermediate disc, said intermediate disc having ~~has~~ a third through-going cavity ~~(135)~~ at said second distance from the axis of rotation.

9. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 8, ~~in which wherein~~ the conduit ~~means~~ includes a first part connecting the control unit with the probe and a second part connecting the reservoir with the control unit, each of said first and second parts ~~comprising~~ including a gas conducting tube and an irrigating liquid conducting tube, ~~in which~~ the gas conducting tube of the first part of the conduit ~~means is~~ being connected with the

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

second through-going cavity ~~(127)~~ of the first disc ~~(120)~~ and the irrigating liquid conducting tube of the first part ~~is being~~ connected with the first through-going cavity ~~(126)~~ of the first disc, ~~in which~~ the gas conducting tube of the second part of the conduit ~~being means is~~ connected with the third through-going cavity ~~(130)~~ of the second disc ~~(121)~~ and the irrigating liquid conducting tube of the second part ~~is being~~ connected with the first through-going cavity ~~(128)~~ of the second disc, and ~~in which~~ the ~~pumping means is pump being~~ connected with the second through-going cavity ~~(129)~~ of the second disc.

10. (Currently Amended) ~~The An~~ irrigation system as claimed in claim 8, ~~in which wherein~~ the intermediate disc ~~(122)~~ along a fourth line ~~(A4)~~ extending at an angle with respect to said third line ~~(A3)~~ from said axis of rotation ~~(123)~~ towards the periphery of the intermediate disc has a fourth through-going cavity ~~(136)~~ at said first distance from the axis of rotation and a third ~~an~~ oblong recess ~~(137)~~ opening towards said second disc ~~(121)~~ and extending substantially over a distance corresponding to the second and third through-going cavities ~~(129,130)~~ in the second disc.

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

11. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 8, ~~in which~~ wherein each of said angles is substantially 90'.

12. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 7, ~~in which~~ wherein at least said intermediate disc ~~(122)~~ is formed from a resilient material.

13. (Currently Amended) An irrigation system comprising a reservoir ~~(1)~~ for irrigating liquid, a probe ~~(3)~~ for arrangement in a user, a conduit means ~~(6,7,10,11)~~ for conducting the irrigating fluid from the reservoir to the probe, ~~and a fixation member including an inflatable cuff (5) for fixation of the probe in the user, characterized in that pumping means (9) are provided a pump for pumping gas into the reservoir (1) to transfer the irrigating liquid from the reservoir (1) to the probe (3), that the fixation member includes an inflatable cuff (5), and that the system includes and a control unit (8,108,208,308) which may be set in at least a cuff inflating position and a liquid transferring position, in which the said control unit (8,108,208,308) comprises including at least two elements (120,121,122,220,222,320,322) that may be moved with respect to each other into at least said cuff inflating and liquid transferring positions, and in which said control unit~~

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

~~(208,308)~~ ~~comprises~~ elements including a cylindrical element ~~(222,322)~~ and an accommodating element ~~(220,320)~~ having a substantially cylindrical aperture with dimensions corresponding substantially to the dimensions of the cylindrical element, ~~in which~~ said cylindrical element ~~(222,322)~~ is being rotatable about an axis of rotation ~~(223,323)~~ with respect to the accommodating element ~~(220,320)~~, and ~~in which~~ said cylindrical element ~~may be set~~ being settable in at least said cuff inflating and liquid transferring positions, at least irrigating liquid conducting tubes connecting the control unit with the probe and the reservoir ~~with the control unit, respectively being connected with the accommodating element.~~

14. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 13, ~~in which~~ wherein the accommodating element ~~(220)~~ in a first angular position ~~(A10)~~ has a first canal ~~(226)~~ in a first height position and a second canal ~~(227)~~ in a second height position, ~~in which~~ the accommodating element in a second angular position ~~(A20)~~ ~~has~~ having a third canal ~~(228)~~ in said first height position and a fourth canal ~~(230)~~ in said second height position, ~~in which~~ the accommodating element in a third angular position ~~(A30)~~ ~~has~~ having a fifth canal ~~(229)~~ in a third height position,

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

and ~~in which~~ the accommodating element in a fourth angular position having ~~has (A40)~~ a sixth canal ~~(238)~~ in said third height position, each canal extending from ~~the~~ a periphery of the accommodating element ~~means~~ to the substantially cylindrical aperture.

15. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 14, wherein ~~in which~~ the cylindrical element ~~(222)~~ ~~comprises~~ includes an internal gas distribution compartment ~~(231)~~ having in a first angular position ~~(A11)~~ a first passage ~~(231a)~~, in a second angular position ~~(A21)~~ a second passage ~~(231b)~~, in a third angular position ~~(A31)~~ a third passage ~~(231c)~~ and in a fourth angular position ~~(A41)~~ a fourth passage ~~(232)~~.

16. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 14, wherein ~~in which~~ the cylindrical element ~~(222)~~ ~~comprises~~ includes in said third angular position a first channel ~~(233a)~~ extending from substantially the axis of rotation ~~(223)~~ to ~~the~~ a periphery of the cylindrical element, and a second channel ~~(233b)~~ extending from substantially the axis of rotation ~~(233)~~ to the periphery of the cylindrical element in a fifth angular position ~~(A51)~~ that forms an angle with the third angular position ~~(A31)~~ corresponding to the angle between said first and second angular

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

positions ~~(A10,A20)~~ of the accommodating element ~~(220)~~, said first and second channels ~~(233a,233b)~~ being connected with each other at the axis of rotation ~~(223)~~.

17. (Currently Amended) The ~~An~~-irrigating system as claimed in claim 14, wherein ~~in which~~ the conduit ~~means~~ includes a first part connecting the control unit with the probe and a second part connecting the reservoir with the control unit, each of said first and second parts ~~comprising~~ including a gas conducting tube and an irrigating liquid conducting tube, ~~in which~~ the first canal ~~(226)~~ is being connected with the irrigating liquid conducting tube and the second canal ~~(227)~~ with the gas conducting tube of the first part of the conduit ~~means~~, ~~in which~~ the third canal ~~(228)~~ is being connected with the irrigating liquid conducting tube and the fourth canal ~~(230)~~ with the gas conducting tube of the second part of the conduit, ~~means~~, ~~in which~~ the fifth canal ~~(229)~~ is being connected with the pump, ~~pumping means~~, and ~~in which~~ the sixth canal ~~(238)~~ is being connected with the ambience.

18. (Currently Amended) The ~~An~~-irrigation system as claimed in claim 13, wherein ~~in which~~ the accommodating element ~~(320)~~ ~~comprises~~ includes an abutment face ~~(320a)~~ for a bottom face ~~(322a)~~

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

of the cylindrical element ~~(322)~~, ~~in which~~ the accommodating element ~~(320)~~ in a first angular position ~~(A100)~~ ~~has~~ having a first canal ~~(326)~~, and in a second angular position a third canal ~~(328)~~, each of said first and third canals ~~(326,328)~~ extending from ~~the~~ a periphery of the accommodating element ~~(320)~~ in a direction substantially towards the axis of rotation ~~(323)~~ to a predetermined position and from said predetermined position to the abutment face ~~(320a)~~, ~~in which~~ the accommodating element ~~(320)~~ along a line substantially parallel with a line extending through said first angular position ~~(A100)~~ ~~has~~ having a second canal ~~(327)~~, and along a line substantially parallel with a line extending through said second angular position having ~~(A200)~~ ~~has~~ a fourth canal ~~(330)~~, each of said second and fourth canals ~~(327,330)~~ extending from the periphery of the accommodating element ~~(320)~~ to a predetermined position and from said predetermined position to the abutment face ~~(320a)~~, ~~in which~~ the accommodating element in a third angular position ~~(A300)~~ ~~has~~ having a fifth canal ~~(329)~~ extending from the periphery of the accommodating element to the axis of rotation ~~(323)~~ and further on to the abutment face ~~(320a)~~, ~~in which~~ the accommodating element in a fourth angular position ~~(A400)~~ ~~has~~ having a sixth canal ~~(338)~~ extending from the periphery of the accommodating element towards the axis of rotation to a

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

predetermined position and from that position to the abutment face ~~(320a)~~, and ~~in which~~ the cylindrical element ~~(322)~~ in the bottom face ~~(322a)~~ has having a first oblong recess ~~(340)~~ opening towards the abutment face ~~(320a)~~ and having an extent corresponding substantially to the distance between the first and third canals ~~(326,328)~~ of the accommodating element ~~(320)~~, and a second oblong recess ~~(341)~~ opening towards the abutment face ~~(320a)~~ and having such a configuration that, in a first position, it extends from the fourth canal ~~(330)~~ through the fifth and second canals ~~(329,327)~~ to the sixth canal ~~(338)~~.

19. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 18, wherein ~~in which~~ the first oblong recess ~~(340)~~ has a substantially curved shape.

20. (Currently Amended) The ~~An~~ irrigation system as claimed in claim 18, wherein ~~in which~~ the conduit ~~means~~ includes a first part connecting the control unit with the probe and a second part connecting the reservoir with the control unit, each of said first and second parts ~~comprising~~ including a gas conducting tube and an irrigating liquid conducting tube, ~~in which~~ the first canal ~~(326)~~ is being connected with the irrigating liquid conducting tube and

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

the second canal ~~(327)~~ with the gas conducting tube of the first part of the conduit, ~~means, in which the third canal (328) is being~~ connected with the irrigating liquid conducting tube and the fourth canal ~~(330)~~ with the gas conducting tube of the second part of the conduit, ~~means, in which the fifth canal (329) is being~~ connected with the ~~pumping means pump~~, and ~~in which the sixth canal (338)~~ is being connected with the ambience.

21. (Cancelled).

22. (Cancelled).

23. (Currently Amended) An irrigation system comprising a reservoir ~~(1)~~ for irrigating liquid, a probe ~~(3)~~ for arrangement in a user, a conduit ~~means (6,7,10,11)~~ for conducting the irrigating fluid from the reservoir to the probe, ~~and~~ a fixation member including an inflatable cuff (5) for fixation of the probe in the user, ~~characterized in that pumping means (9) are provided a pump~~ for pumping gas into the reservoir ~~(1)~~ to transfer the irrigating liquid from the reservoir ~~(1)~~ to the probe ~~(3)~~, ~~that the fixation member includes an inflatable cuff (5), and that the system includes a control unit (8,108,208,308)~~ which may be set in at

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

least a cuff inflating position and a liquid transferring position,
~~in which the pumping means (9) is~~ said pump being a powered pump,
~~such as an electrically or pneumatically operated pump,~~ and in
~~which said pump (9) is~~ being deactivated when the control unit ~~(8)~~
is set in a ~~the~~ first position and ~~is~~ being activated automatically
when the control unit is set in the a second position.

24. (Currently Amended) An irrigation system comprising a
reservoir ~~(1)~~ for irrigating liquid, a probe ~~(3)~~ for arrangement in
a user, a conduit means ~~(6,7,10,11)~~ for conducting the irrigating
fluid from the reservoir to the probe, ~~and~~ a fixation member
including an inflatable cuff ~~(5)~~ for fixation of the probe in the
user, ~~characterized in that pumping means (9) are provided~~ a pump
for pumping gas into the reservoir ~~(1)~~ to transfer the irrigating
liquid from the reservoir ~~(1)~~ to the probe ~~(3)~~, ~~that the fixation~~
~~member includes an inflatable cuff (5), and that the system~~
~~includes~~ a control unit ~~(8,108,208,308)~~ which may be set in at
least a cuff inflating position and a liquid transferring position,
~~in which the pumping means is~~ said pump being a manually operated
pump, ~~such as a bulb or a bellow pump,~~ and in which the pump is
integrated with the control unit.

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

25. (Currently Amended) An irrigation system comprising a reservoir ~~(1)~~ for irrigating liquid, a probe ~~(3)~~ for arrangement in a user, a conduit ~~means (6,7,10,11)~~ for conducting the irrigating fluid from the reservoir to the probe, ~~and~~ a fixation member including an inflatable cuff ~~(5)~~ for fixation of the probe in the user, ~~characterized in that pumping means (9) are provided~~ a pump for pumping gas into the reservoir ~~(1)~~ to transfer the irrigating liquid from the reservoir ~~(1)~~ to the probe ~~(3)~~, ~~that the fixation member includes an inflatable cuff (5), and that the system includes a control unit (8,108,208,308) which may be set in at least a cuff inflating position and a liquid transferring position, wherein the said control unit including comprises three flexible tubes 401, 402, 403, the tubes being connected to a pumping element means 404 at one end, the first tube 401 being connected to a gas outlet 405, the second tube 402 being connected to the reservoir 406 and the third tube 403 being connected to the inflatable cuff 407, said tubes may be individually compressed to a fluid tight position.~~

26. (New) The irrigation system as set forth in claim 23, wherein said pump is electrically or pneumatically operated.

Serial No.: 10/520,936
Atty. Docket No.: P70330US0

27. (New) The irrigation system as set forth in claim 24, wherein said pump is a bulb or a bellow pump.

28. (New) The irrigation system as set forth in claim 25, wherein said tubes are individually compressed to prevent fluid flow therethrough.